

ILLUMINATION DEVICE UTILIZING DISPLACED RADIATION PATTERNS

ABSTRACT

In one embodiment, the invention is directed to an illumination device. The
5 illumination device includes a light emitting diode that emits a radiation pattern, wherein
a maximum luminous intensity of the radiation pattern is displaced relative to a center
axis of the light emitting diode. The illumination device may also include a number of
light guides positioned to be illuminated by the light emitting diode. The invention
utilizes the “batwing” radiation pattern of a light emitting diode to effectively illuminate
10 a number of light guides with a single light emitting diode. Each light guide is offset
from a center axis of the light emitting diode to capture light that is annularly displaced.
This offset positioning of the light guides allows the light guides to effectively capture
light from the light emitting diode where light intensity is greatest.